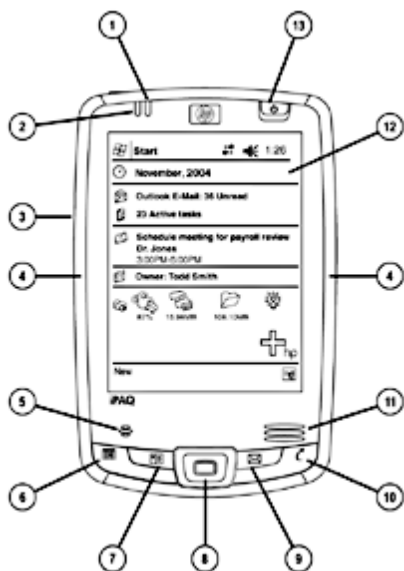
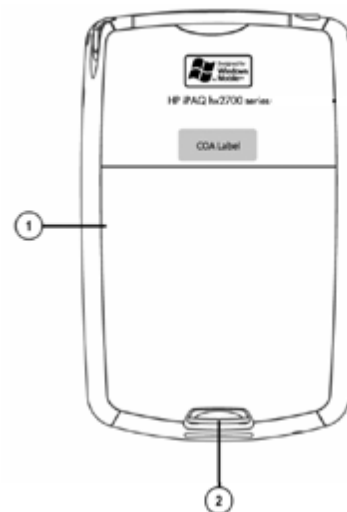


Overview



Front Image



Back Image

- | | |
|-------------------------------|----------------------------|
| 1. Charging/Notification LED | 8. 5-way Navigation Button |
| 2. Wireless LED | 9. Messaging Button |
| 3. Voice Record Button (side) | 10. iTask Button |
| 4. Rubber Side Grips | 11. Speaker |
| 5. Microphone | 12. Color Display |
| 6. Calendar Button | 13. Power Button |
| 7. Contacts Button | |

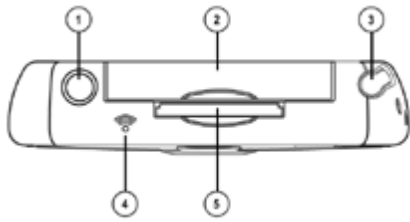
1. Battery Door Cover
2. Battery Door Cover Release

At A Glance

- Intel® PXA270 Processor 520 MHz
- Integrated WiFi (802.11b)¹
- Integrated Bluetooth®¹ wireless technology
- Integrated Compact Flash type II (CF) and Secure Digital (SDIO) slots
- HP ProtectTools secured by CREDANT Technologies security application²
- 3.5" transfective TFT QVGA with 64K color LED backlight display, landscape and portrait display modes
- Microsoft® Windows Mobile™ 2003 Second Edition software for Pocket PC
- Removable/rechargeable 1440 mAh battery
- Integrated Serial IR
- Protective plastic flip cover
- Pocket versions of familiar applications like Microsoft® Outlook®, Word and Excel

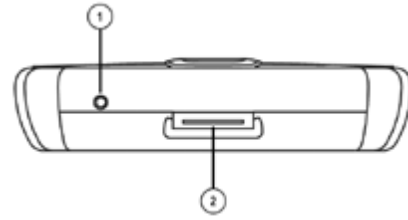
NOTE: 1 A standard WLAN (Wi-Fi) infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless network service providers for availability and coverage in your area. Not all web content available.

Overview



Top Image

1. Headphone/Headset Jack
2. Compact Flash (CD) Expansion Slot
3. Stylus
4. Serial IR (Infrared) Port
5. Secure Digital (SDIO) Expansion Slot



Bottom Image

1. Reset Button
2. Charging/ActiveSync Connector

Standard Features

Models

iPAQ Pocket PC hx2410 – 64 MB ROM, 64 MB SDRAM, WiFi (802.11b), Bluetooth, and Serial IR

FA298A#ABA – US Commercial, English

iPAQ Pocket PC hx2415 - 64 MB ROM, 64 MB SDRAM , WiFi (802.11b), Bluetooth and Serial IR

FA299A#ABA - US Retail, English

Processor	Intel® PXA270 Processor 520 MHz NOTE: Intel's processor numbering is not a measurement of higher performance.	
Memory	User Available Memory	128 MB total memory (64 MB ROM and 64 MB SDRAM) Up to 65 MB user available memory that includes 20 MB iPAQ File Store
Display	Type	Transflective TFT QVGA color with LED backlight with power save mode
	Modes	Portrait and landscape
	Number of Colors	64K color (65,536 colors) 16-bit
	Touch Screen	Yes
	Resolution (W x H)	240 x 320 pixels
	Dot Pitch	0.24 mm
	Viewable Image Size	3.5 in (89 mm)
Hardware Buttons/ Reset Buttons	Power, soft reset, 5-way navigation, voice record, calendar, contacts, messaging, and iTask buttons. (The last 5 buttons are re-programmable.)	
Stylus	One – Included in the box	
Audio	Integrated microphone, speaker and one 3.5 mm stereo headphone jack, MP3 stereo (through headphone jack)	
Indicators	LED 1 – Power	Solid amber LED – battery in unit fully charged Flashing amber LED – battery in unit charging Flashing green – event alarm/notification
	LED 2 – Wireless	Flashing blue LED – wireless radio enabled
Cradle Interfaces	Connector	1 – 22 pin
	DC Power jack connector for AC/DC Adapter connection	1

Standard Features

Other interfaces	IrDA (SIR)		
	USB 1.1 Client – supported via HP standard 22-pin cradle interface		
	Serial RS232 – supported via HP standard 22-pin cable interface (cable must be purchased separately)		
	NOTE: Some HP authorized options may not be supported. See http://www.hp.com/go/ipaqaccessories .		
SD Slot	Support 1-bit SDIO and 4-bit SD/MMC type memory standard		
CF Slot	1 Type II		
Power Supply	Battery	Removable/rechargeable 1440 mAh Lithium-Ion (user changeable). Optional extended 2880 mAh Lithium-Ion battery available for purchase separately (http://www.hp.com/go/ipaqaccessories).	
	AC Power	AC Input: 100~240 Vac, 50/60 Hz, AC Input current: 0.3 Aac max Output Voltage: 5Vdc (typical), Output Current: 2A (typical)	
	NOTE: Battery run time varies based on the usage pattern of an individual user and the configuration of the handheld. Use of internal wireless capabilities and backlight will significantly decrease battery run time.		
AC Adapter	Dimensions (H x W xD)	3 x 1.9 x 1.8 in (76 x 48 x 44 mm – including prongs), (may vary by model)	
	Cord Length (approx.)	6 ft (1.83 m)	
	Power Supply Ratings	Voltage Range	100 to 240 V Switching
		Input Current	0.3 Aac
		Input Frequency	50 to 60 Hz
		Output Voltage	5 VDC
Output Current	2 Amp		
System Unit	Dimensions (H x W x D)	4.71 x 3.01 x .65 in (119.4 x 76.6 x 16.3mm)	
	Weight	5.8 oz (164.4 g)	
	Operating Temperature	32° to 104° F (0° to 40° C)	
	Storage Temperature	-4° to 140° F (-20° to 60° C)	
	Operating Humidity	90% RH	
	Regulatory Marks	Electrical	FCC Class B, UL or CSA NRTL
Safety		C-UL, NOM	
Design Features	4 programmable application quick-launch buttons, 5-way navigation button, touch-sensitive display for stylus or fingertip, voice record button, microphone and speaker, rubber sides for comfortable grip		

Standard Features

Operating System	Microsoft® Windows Mobile™ 2003 Second Edition software for Pocket PC Pocket versions of Microsoft software are included (Outlook, Word, Excel and Internet Explorer for Pocket PC)
Operating System Applications	Powered by Microsoft® Windows Mobile™ 2003 Second Edition for Pocket PC Calendar, Contacts, Tasks, Voice Recorder, Notes, Pocket Word (with Spellchecker), Pocket Excel, Pocket Internet Explorer, Windows Media Player 9 (MP3, audio and video streaming), Calculator, Solitaire, Jawbreaker, Inbox (with Spell Checker for email), File Explorer, Pictures, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, Memory, Volume control
In the box	HP iPAQ hx2400 series Pocket PC, lithium-Ion 1440 mAh removable/rechargeable battery, AC adapter, charger adapter, USB desktop synchronization cradle, stylus, protective plastic flip cover, Getting Started Guide, How Do I...? Guide and HP iPAQ Pocket PC Companion CD.
Additional Software and links	Outlook 2002, Microsoft ActiveSync 3.7.1 (Desktop device synchronization), Microsoft Reader eBooks, and links to Microsoft websites for additional downloadable applications . NOTE: Some programs may require purchase of additional desktop software to utilize Pocket PC versions.
Service and Support	One-year parts and labor in most regions; 90 days technical support for software in most regions. Additional offers may vary by region.
HP Exclusive Applications	<ul style="list-style-type: none">• HP ProtectTools secured by CREDANT Technologies: keep your device and data secure• Bluetooth Phone Manager: connect to a Bluetooth-enabled phone and browse the internet^{1,3,4}• iPAQ Wireless: manage wireless connections• HP Profiles: set and name profiles to be used at different times for different functions, such as volume, brightness and wireless settings• HP Mobile Printing: print to network and Bluetooth printers without any additional software• Bluetooth Manager: manage your Bluetooth connections and settings• iPAQ File Store: non-volatile storage in flash ROM• iPAQ Backup: backup and restore your data to main memory, memory card or iPAQ file store• iTask: launch and switch between tasks and application• HP Image Zone for Pocket PC: application to view images and create slide shows• Utilities: Self Test, iPAQ Audio, Power Status• How Do I...? Guide

Standard Features

Companion CD from HP

	Full Versions	Trial Versions
Applications	ActiveSync Adobe Reader for PC ClearVUE Suite (Word and Excel) ClearVUE Suite (PPT and PDF) Outlook 2002 Desktop WorldMate (NA Retail only) Media Player Desktop	Altiris Express Afaria Management File Explorer 2003 Margi Presenter-to-go Pocket Informant 5.0
CD Links	Audible Player AvantGo Handango iPAQ Backup upgrade LANDesk Vindigo 2.0 Microsoft Games	

Additional Documentation

Safety and Comfort Guide on PDF, and User Guide on PDF

NOTE: Programs may vary based on model. Some programs are accessed through CD links to download web sites.

WiFi (802.11b) Specifications^{1,5}

Technology	High-speed wireless access to the Internet, email and corporate data
RF Network Standard	IEEE 802 Part 11b (802.11b)
Frequency Band	2.4000 to 2.4835 GHz 2.4465 to 2.4835 GHz (France) 2.4000 to 2.497 GHz (Japan)
Antenna type	Embedded Antenna
Security	WEP 64/128-bit compliant to IEEE 802.11 Compliant to 802.1X (EAP-TLS, PEAP) LEAP, WPA
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Points Required)
Modulation Technique	Direct Sequence Spread Spectrum
Modulation Schemes	DBPSK, DQPSK, CCK
Receiver Sensitivity – Packet Error Rate (8E-2)	11 Mbps: <-80 dBm 5.5 Mbps: <-82 dBm 2 Mbps: <-86 dBm 1 Mbps: <-89 dBm
Maximum Receive Level	-10dBm (1/2/5.5/11 Mbps)
Output Power	15 dBm
Power Management	Radio On/Off control through iPAQ wireless Power Save mode available in Power Settings
Power Consumption	Transfer mode: < 300 mA, average Receive mode: < 200 mA, average
Power Saving Option	802.11 Compliant Power Saving, idle mode 20 mA
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK

Standard Features

Protocols Supported	TCP/IP IPX/SPX UDP
Operating Distance	Up to 1000 feet – Open sight
Certifications	All necessary regulatory approvals for countries we support including: WECA Wi-Fi approval FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300 328, ETS 301 489-6 Low Voltage Directive IEC950 UL, CSA, and CE Mark

NOTES:

¹ A standard Wi-Fi infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless network service providers for availability and coverage in your area. Not all web content available.

⁵ Wireless access point required and is not included. Availability of public wireless access points limited. Wireless Internet use may require separately purchased Internet service contract.

Bluetooth® Specifications¹

Technology	High-speed, low-power, short-range wireless communication with other Bluetooth devices
Bluetooth specification	1.2 compliant (2.4-GHz Industrial Scientific Medical Band)
System interface	High-speed UART processor interface
User Interface	Bluetooth Manager
Device type	Class II device; up to 4 dBm transmit, typical 10 meter range
Power	3.3V 5% Peak current – typical TX current at approximately 30 mA – typical RX current at approximately 50 mA
Receiver sensitivity	-83 dBm
Regulatory standards	R&TT#-EN 300 328 and EN 300 826, UL 1950, CB Safety Scheme inclusive of EN 60950 and IEC 950, FCC Part 15 subpart C, Canadian, CE
Profile Support	General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile Personal Area Networking Profile Basic Printing Profile Hard Copy Replacement Profile (printing) Headset Profile

Standard Features

Usage Models

Service Discovery

Determine what Bluetooth devices are within range and support authorization

File Transfer

File and directory browsing and navigation on another Bluetooth device.

File copying

Object manipulation – including add, delete, create new folders etc.

Serial Port

Synchronization between PDAs and PCs

Dial Up Networking

Wireless link to WAN thru Bluetooth enabled cell phone^{1,3,4}

Agnostic to WAN technology

Send/receive SMS messages

LAN Access

Wireless link to Corporate LAN using Bluetooth and appropriate Bluetooth access point¹

Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP¹

Access the Internet by connecting to your desktop or notebook over Bluetooth and using its network connection¹

Generic Object Exchange and Object Push

Exchange business cards, tasks, documents, appointments and more¹

Personal Area Networking

Collaborate, chat, play games, exchange data¹

Adhoc peer to peer networking¹

Basic Printing and Hard Copy Replacement Profiles

Print to any HP Bluetooth enabled printer without the need for cables or specific print drivers

Certifications

All necessary regulatory approvals for countries supported including: Bluetooth logo (FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300 328, ETS 301 489-1/17 Low Voltage Directive IEC950 UL and CE Mark

NOTE:

¹ A standard Wi-Fi infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless network service providers for availability and coverage in your area. Not all web content available.

Options

NOTE: Optional accessories are available at additional cost.

Memory/Storage	128 MB SD Memory Card	FA135A#AC3
	256 MB SD Memory Card	FA136A#AC3
	512 MB SD Memory Card	FA184A#AC3
	1 GB SD Memory Card	FA283A#AC3
Power	1440 mAh Lithium Ion Standard Battery	FA285A#AC3
	2880 mAh Lithium Ion Extended Battery	FA286A#AC3
	Automobile Adapter	FA125A#AC3
	Charger Adapter	FA133A#AC3
	AC Adapter	FA130A#ABA
Synchronization	Desktop Cradle	FA260A#AC3
	AutoSync Cable (USB and Serial)	FA122A#AC3
Input Devices	Stylus Three-pack	FA261A#AC3
	Foldable Keyboard	FA118A#ABA
	Wireless Bluetooth folding keyboard	FA287A#AC3
	Thumb keyboard	FA302A#AC3
	SDIO Camera (Photosmart Mobile Camera)	FA185A#ABA
Navigation	iPAQ Navigation System – (U.S. only)	FA196A#ABA
Headphones	Bluetooth Stereo Headphones	FA303A#AC3
Cases	iPAQ Rugged Case	FA288A#AC3
	Nylon Slim Case	FA161A#AC3
	Leather Belt Case	FA160A#AC3
	Premier Leather Belt Case	FA350A#AC3
	Custom Cases: to view and order go to: http://www.casesonline.com .	

NOTES:

¹ A standard Wi-Fi infrastructure, other Bluetooth-enabled devices, separately purchased equipment, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with wireless network service providers for availability and coverage in your area. Not all web content available.

² User must have HP ProtectTools features enabled.

³ Requires Bluetooth enabled mobile, separately purchased wireless carrier/Internet service plan(s) and supporting IT infrastructure.

⁴ Telephone service requires separately purchased contract with a telephone service provider with coverage in your service area.

⁵ Wireless access point required and is not included. Availability of public wireless access points limited. Wireless Internet use may require separately purchased Internet service contract.

Options

HP Care Pack Services	9x5 Pick-up and Return Service, 2 years	U7849E
	9x5 Pick-up and Return Service, 3 years	U7846E
	9x5 Next-Business-Day Exchange, 1 Year	U7844E
	9x5 Next-Business-Day Exchange, 3 Years	U7845E
	9x5 Pick-up and Return Post Warranty Service, 1 Year	U6572PE
	9x5 Pick-up and Return Coverage for Handhelds with Off-Site Accidental Damage Protection Service, 1 yr	U7847E
	9x5 Pick-up and Return Coverage for Handhelds with Off-Site Accidental Damage Protection Service, 3 yrs	U7848E
	9x5 Next-Business-Day Exchange with Off-Site Accidental Damage Protection Service, 1 Year	UC280E
	9x5 Next-Business-Day Exchange with Off-Site Accidental Damage Protection Service, 3 Year	UC281E

HP iPAQ Pocket PC features Windows Mobile™ software

For more information on HP iPAQ Pocket PC, visit our website at <http://www.hp.com/go/iPAQ>

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